

ABSTRACT OF THE DISCLOSURE

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cont.*

A vehicle AC generator comprises: a case; a shaft journaled in the case; a rotor secured to the shaft so as to be disposed in the case; a stator supported by the case so as to be disposed to cover the external periphery of the rotor; ventilating means rotated together with the rotor; and a rectifier unit cooled by the ventilating means, the rectifier unit comprising: cooling plates for the positive-electrode and negative-electrode sides disposed at a predetermined interval and each having principal planes opposing each other; and a diode package disposed between the cooling plates for the positive-electrode and negative-electrode sides, the diode package comprising: a unidirectionally conducting element for the positive-electrode side; a unidirectionally conducting element for the negative-electrode side having a cathode face joined to an anode face of the unidirectionally conducting element for the positive-electrode side by interposing an AC input terminal therebetween; a base for the positive-electrode side formed of a metallic plate and joined to a cathode face of the unidirectionally conducting element for the positive-electrode side; a base for the negative-electrode side formed of a metallic plate and joined to an anode face of the unidirectionally conducting element for the negative-electrode side; and an insulating resin provided so that the unidirectionally conducting elements for the positive-electrode and negative-electrode sides are embedded therein, at least end faces of the respective bases for the positive-electrode and negative-electrode sides are exposed therefrom on both sides in the depositing direction of the unidirectionally conducting elements for the positive-electrode and negative-electrode sides, and the top

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end of the AC input terminal extends therefrom, wherein in the diode package, the end face of the base for the positive-electrode side is joined to the principal plane of the cooling plate for the positive-electrode side while the end face of the base for the negative-electrode side is joined to the principal plane of the cooling plate for the negative-electrode side.